

**STATEMENT OF WORK
Constructed Wetland (656)
TENNESSEE**

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. Environmental Evaluation including a completed TN-CPA-25.
 - c. List of required (applicable) permits to be obtained by the client.
 - d. Compliance with NRCS national and state utility safety policy [National Engineering Manual (NEM), Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06].
 - e. List of applicable facilitating/component practices [e.g., Dike (356), Fence (382), Structure for Water Control (587)].
 - f. Practice standard criteria related computations and analyses to develop plans and specifications including, but not limited to:
 - i. Geology and Soil Mechanics [National Engineering Manual (NEM), Subpart 531a; National Engineering Handbook (NEH), Part 651; Agricultural Waste Management Field Handbook (AWMFH), Appendix 10d].
 - ii. Hydrology/Hydraulics.
 - iii. Structural.
 - iv. Vegetation.
 - v. Environmental Considerations.
2. Written plans and specifications shall be provided to the client that adequately describe the requirements to install the practice and obtain necessary permits including:
 - a. Location and vicinity map.
 - b. Sketches and drawings.
 - c. Plan view, with contours if applicable.
 - d. Profiles, if applicable.
 - e. Cross-sections, if applicable.
 - f. Construction specifications.
 - g. Quantity and cost estimates.
 - h. Appropriate signatures.
3. Design Report and Inspection Plan, as appropriate [National Engineering Manual (NEM), Part 511, Subpart B, Documentation, 511.11; and Part 512, Subpart D, Quality Assurance Activities, 512.30 through 512.32].
4. Operation and Maintenance Plan.
5. Certification that the design meets practice standard criteria and complies with applicable laws and regulations [National Engineering Manual (NEM), Subpart A, 505.03 (a) (3)].
6. Design modifications during installation, as required.

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INSTALLATION

Deliverables

1. Pre-installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan, as appropriate).
5. Actual materials used (Part 512, Subchapter D Quality Assurance Activities, 512.33).
6. Inspection records.
7. Facilitate and implement required design modifications with client and original designer.
8. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations, and NRCS policies during installation.
9. Certification that the installation process and materials meet design and permit requirements.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied.
 - b. Drawings.
 - c. Final quantities.
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits [National Engineering Manual (NEM), Subpart A, 505.03 (c) (1)].
3. Progress reporting.

REFERENCES

- NRCS electronic Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard Constructed Wetland, Code 656.
- Electronic Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard Fence (382), Use Exclusion (472), Critical Area Planting (342), Dike (356), Structure for Water Control (587), Wastewater Treatment Strip (635), as applicable.
- NRCS National Engineering Manual (NEM).
- National Engineering Handbook (NEH), Part 651, Agricultural Waste Management Field Handbook, (AWFMH).

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- Agricultural Waste Management Field Handbook, Appendix 10d, Geotechnical Design and Construction Guidelines.
- National Engineering Handbook, Chapter 6 (Structures).
- National Engineering Handbook, Chapter 13 (Wetland Restoration, Enhancement and Creation).
- NRCS National Environmental Compliance Handbook.
- Tennessee Environmental Permitting Handbook
<http://www.state.tn.us/environment/permits/index.html>.
- NRCS Cultural Resources Handbook.